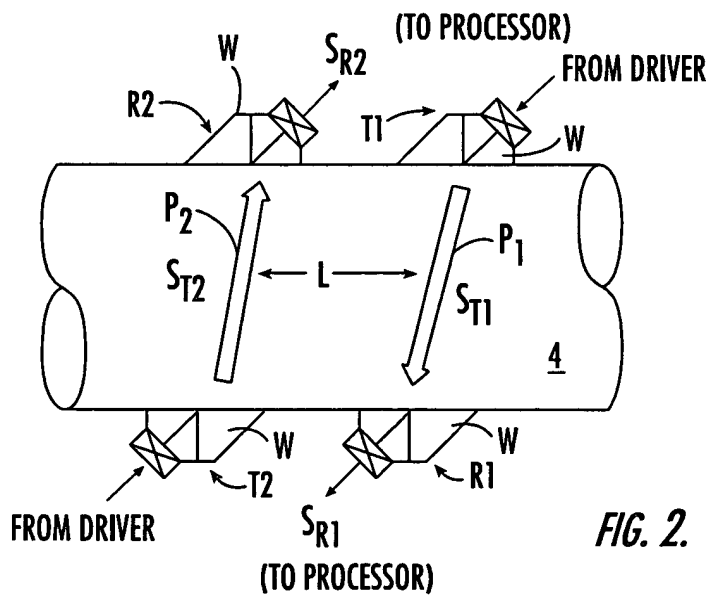




**FIG. 1.**  
**PRIOR ART**



**FIG. 2.**



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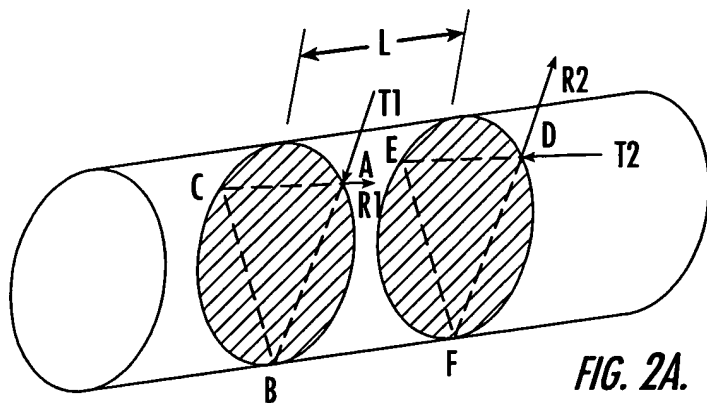


FIG. 2A.

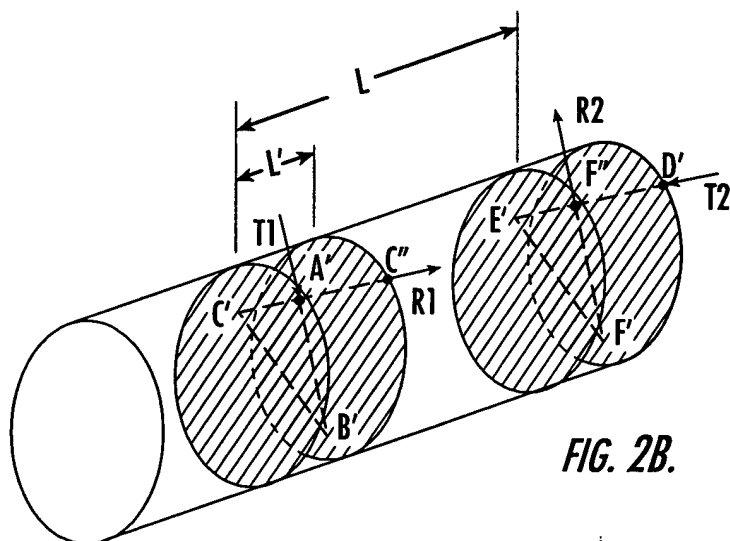


FIG. 2B.

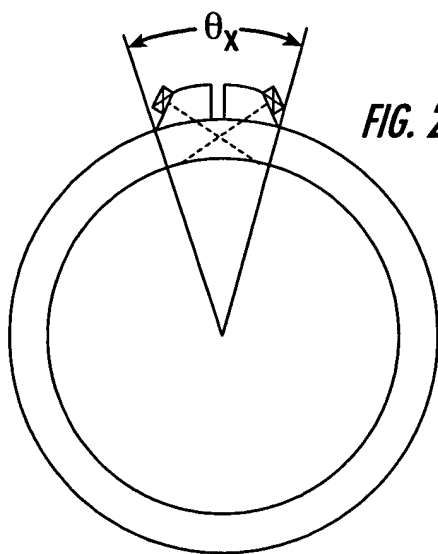


FIG. 2D.

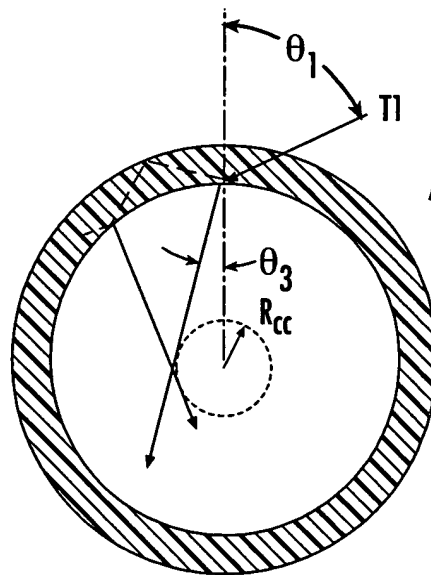
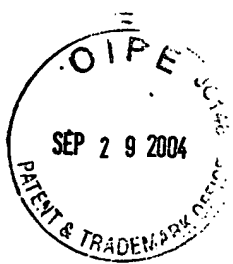


FIG. 2C.



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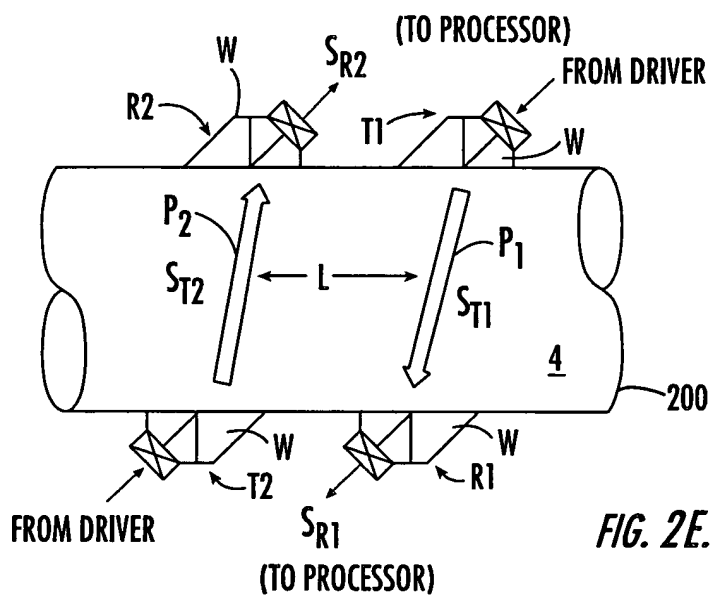


FIG. 2E.

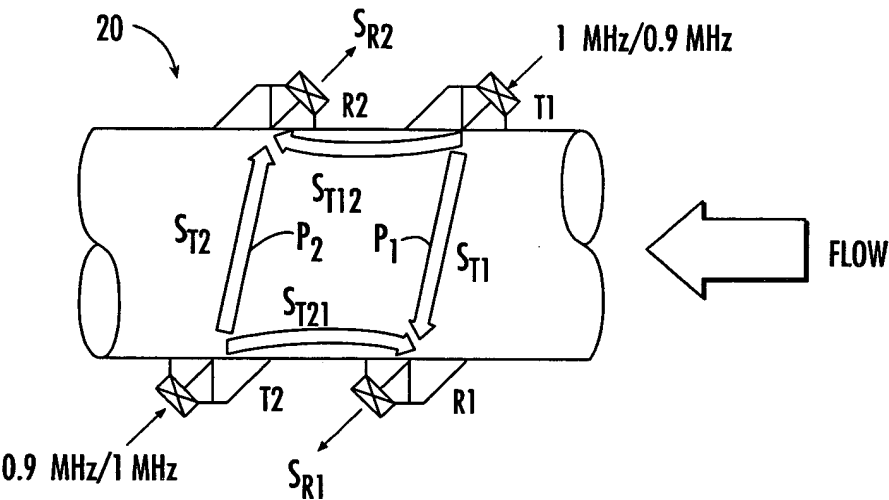


FIG. 3A.

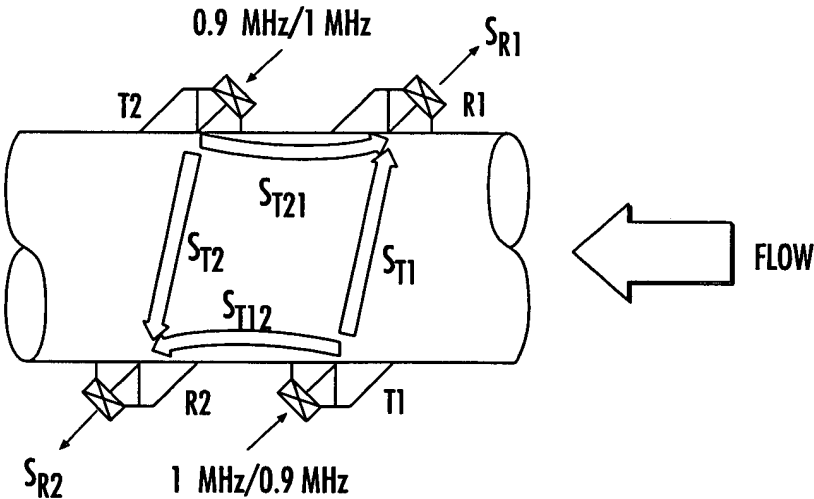


FIG. 3B.



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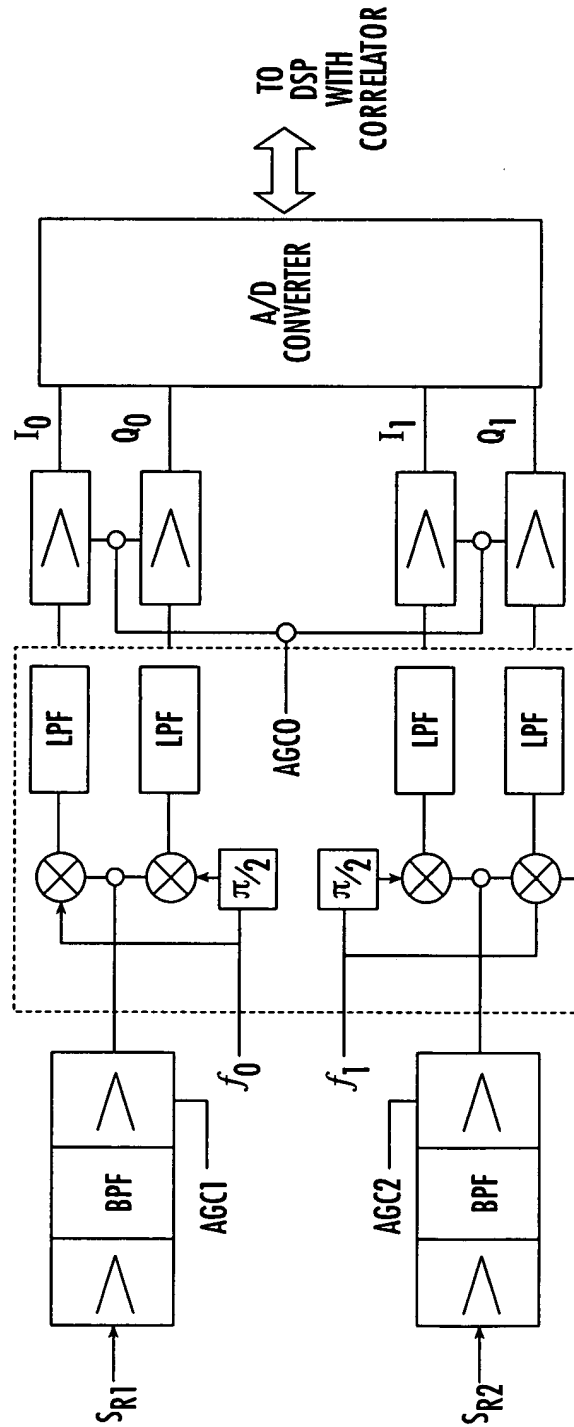


FIG. 4.



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TABLE 1. REPEATABILITY TESTS ON PARALLEL(P) TAG AND ANTIPARALLEL(AP) TAG METHODS.

RUN NUMBER	MOTOR SPEED (RPM)	VELOCITY (ft/s)			SNR	
		SCALED REFERENCE	TAG(P)	TAG(AP)	P	AP
1	3000	6.8	--	8.6	--	3.7
	6000	15.3	--	17.4	--	3.2
	9000	25.7	--	27.6	--	4.8
	26400	95.6	92.3	92.7	1.6	14.6
2	3000	6.8	8.8	8.9	0.8	4.6
	6000	15.3	18.3	18.2	2.2	6.2
	9000	25.7	28.9	28.4	3.1	7.7
3	3000	6.8	8.8	8.8	1.7	6.1
	6000	15.3	18.6	18.5	6.5	7.7
	9000	25.7	28.2	28.7	11.0	10.0
4	3000	6.3	8.7	8.8	1.2	4.3
	6000	15.8	18.3	18.1	3.9	7.4
	9000	25.3	28.2	28.1	7.3	9.7
5	3000	6.8	--	8.7	--	3.8
	6000	15.8	18.7	18.1	1.1	6.8
	9000	25.3	28.4	28.2	2.9	10.4

FIG. 5.



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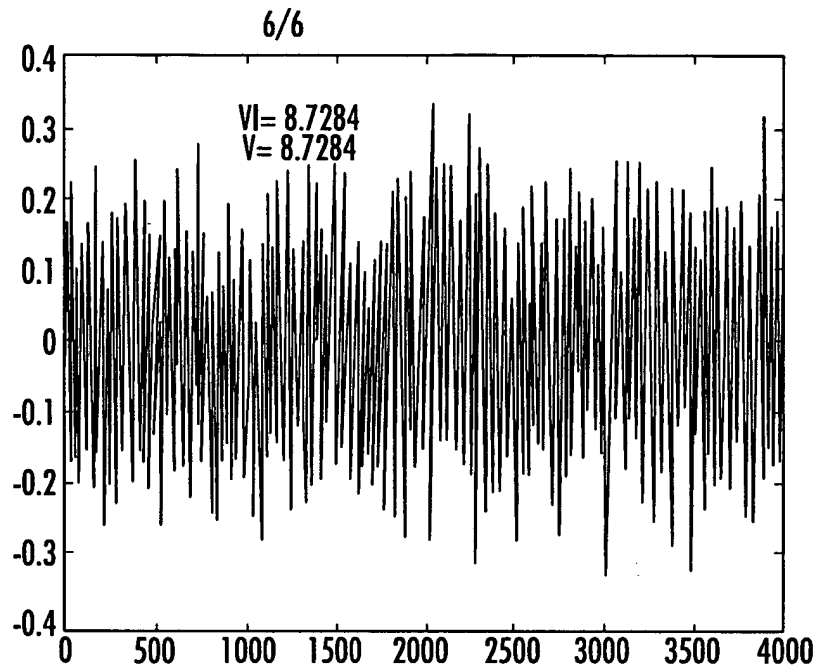


FIG. 6A.

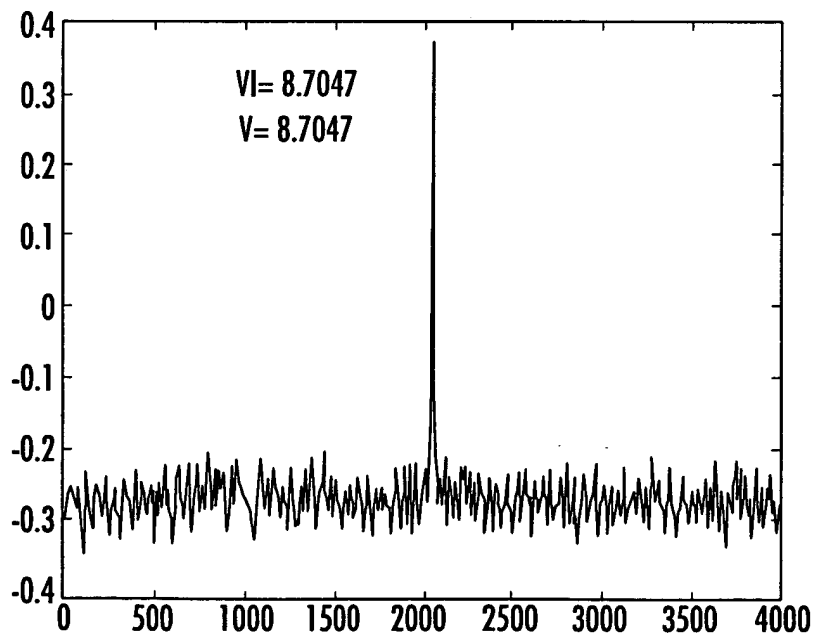


FIG. 6B.